

PATENT SPECIFICATION

932,579

DRAWINGS ATTACHED.

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932,579

Date of filing Complete Specification : April 18, 1962.

Application Date : April 25, 1961. No. 14955/61.

Complete Specification Published : July 31, 1963.

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Index at Acceptance :—Class 19, C, D1.

International Classification :—A47L

COMPLETE SPECIFICATION.

Improvements in or relating to Mop Heads.

We, THE PRESTIGE GROUP LIMITED, a British Company, of Prestige House, 14-18 Holborn, London, E.C.1, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to mops of the self-wringing type comprising a head portion including a sponge or like slab which can be squeezed to expel liquid therefrom; the mop head portion is removably attached to a hinged carrier plate which is secured to the mop handle.

It is an object of the present invention to provide such a mop head of improved construction which facilitates its attachment and removal.

According to the present invention there is provided a mop head comprising a sponge or like slab, a backing member of which one face is secured to the sponge or like slab, and turn-button devices mounted on the backing member for ready attachment and removal of the mop head to and from the head carrier plate of a mop.

The invention also provides a self-wringing mop comprising an elongated carrier plate arranged to be secured to the handle and formed between its longer edges with a hinge, a mop head as defined above, turn-button devices which extend through slots in the backing member which is hinged and through slots in the carrier plate to attach the mop head to the carrier plate, and means for folding the hinged carrier plate to effect squeezing of the sponge or like slab of the mop head.

The use of the turn-button devices, which may also be referred to as quick-release

fasteners, provides for simple and prompt attachment of the mop head. A further advantage is that there are no removable parts, such as nuts or screws, which can be mislaid.

An embodiment of the invention will now be described, by way of example, with reference to the accompanying drawings in which:—

Figure 1 is a side elevation of a mop having a head secured to a hinged carrier plate by turn-button devices;

Figure 2 is a plan corresponding to Figure 1;

Figure 3 is a fragmentary section taken on the line III—III of Figure 2;

Figure 4 is a detail perspective view showing the mop head; and

Figure 5 is a detail elevational view showing one of the turn-button devices.

Referring to the drawings, the mop comprises a handle 10 of which the lower end is secured in a shaped socket member 11. A carrier plate 12 secured to the member 11 comprises parts 13 and 14 connected by a hinge 15 which lies intermediate the edges of the carrier plate, and part 13 being riveted to the base of member 11.

A bracket 16 is secured to the mop handle 10 and carries a pivotal lever 17 which is connected through a cranked rod 18 with the part 14 of the carrier plate 12. The rod 18 is pivotally attached at 19 to the lever 17 and at 20 to a bracket 21 which is secured to the part 14. A resilient plastic clip 22 is provided to hold the rod and thus the lever 17 in the position shown in Figure 1.

The mop head comprises a plastic slab 23 and is attached to the carrier plate 12 by means of four turn-button devices 24. The slab 23 is glued to a backing member com-

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- prising a canvas envelope 25 which contains a pair of flat metal plates 26, and a turn-button device is provided towards each end of each of the flat metal plates.
- 5 The plates are retained by stitching 25A in the canvas and plastic rods 25B are provided to act as buffers. As shown in Figure 5, each turn-button device comprises an upper flat blade 27, a stem 28 and a disc-like base 29. The bases are located under the metal plates 26 and the stems extend through slots 30 in the plates and through openings in the canvas envelopes.
- 10 The parts 13 and 14 of plate 12 are also formed with slots 31 to receive the blades of the turn-button devices. The carrier plate is formed around the slots 31 with raised portions 32 and grooves 33 are arranged in the raised portions.
- 15 In use of the mop, the head is secured to the plate 12 by passing the turn-button heads through slots 31 and then turning the devices through 90° to lock the mop head in position. As the turn-button devices are turned to the positions shown in the drawings, the blades rise on the portions 32 to draw the plates 26 upwardly and so hold the mop head firmly against the carrier plate 12, the blades being held against rotation 20 by their engaging in grooves 33.
- 20 It has been found that the turn-button heads act very satisfactorily to hold the head to the plate 12 during all normal use of the mop, and on the other hand provide for 25 easy removal and replacement of the mop head.
- 25 The parts 13 and 14 of plate 12 are also formed with slots 31 to receive the blades of the turn-button devices. The carrier plate is formed around the slots 31 with raised portions 32 and grooves 33 are arranged in the raised portions.
- 30 In use of the mop, the head is secured to the plate 12 by passing the turn-button heads through slots 31 and then turning the devices through 90° to lock the mop head in position. As the turn-button devices are turned to the positions shown in the drawings, the blades rise on the portions 32 to draw the plates 26 upwardly and so hold the mop head firmly against the carrier plate 12, the blades being held against rotation 35 by their engaging in grooves 33.
- 35 It has been found that the turn-button heads act very satisfactorily to hold the head to the plate 12 during all normal use of the mop, and on the other hand provide for easy removal and replacement of the mop head.

WHAT WE CLAIM IS:—

1. A mop head comprising a sponge or like slab, a backing member of which one face is secured to the sponge or like slab, and turn-button devices mounted on the backing member for ready attachment and

removal of the mop head to and from the head carrier plate of a mop.

2. A mop head according to Claim 1, in which the sponge or like slab is secured to a fabric envelope containing a pair of flat rigid plates through slots in which the turn-button devices extend.

3. A mop head according to Claim 2 in which four turn-button devices are arranged one towards each end of each plate.

4. A mop head according to Claim 2 or Claim 3, in which each turn-button device comprises a base located under its associated plate, a stem extending through the slot in the plate, and a blade-like head arranged to extend through corresponding slots in the mop carrier plate.

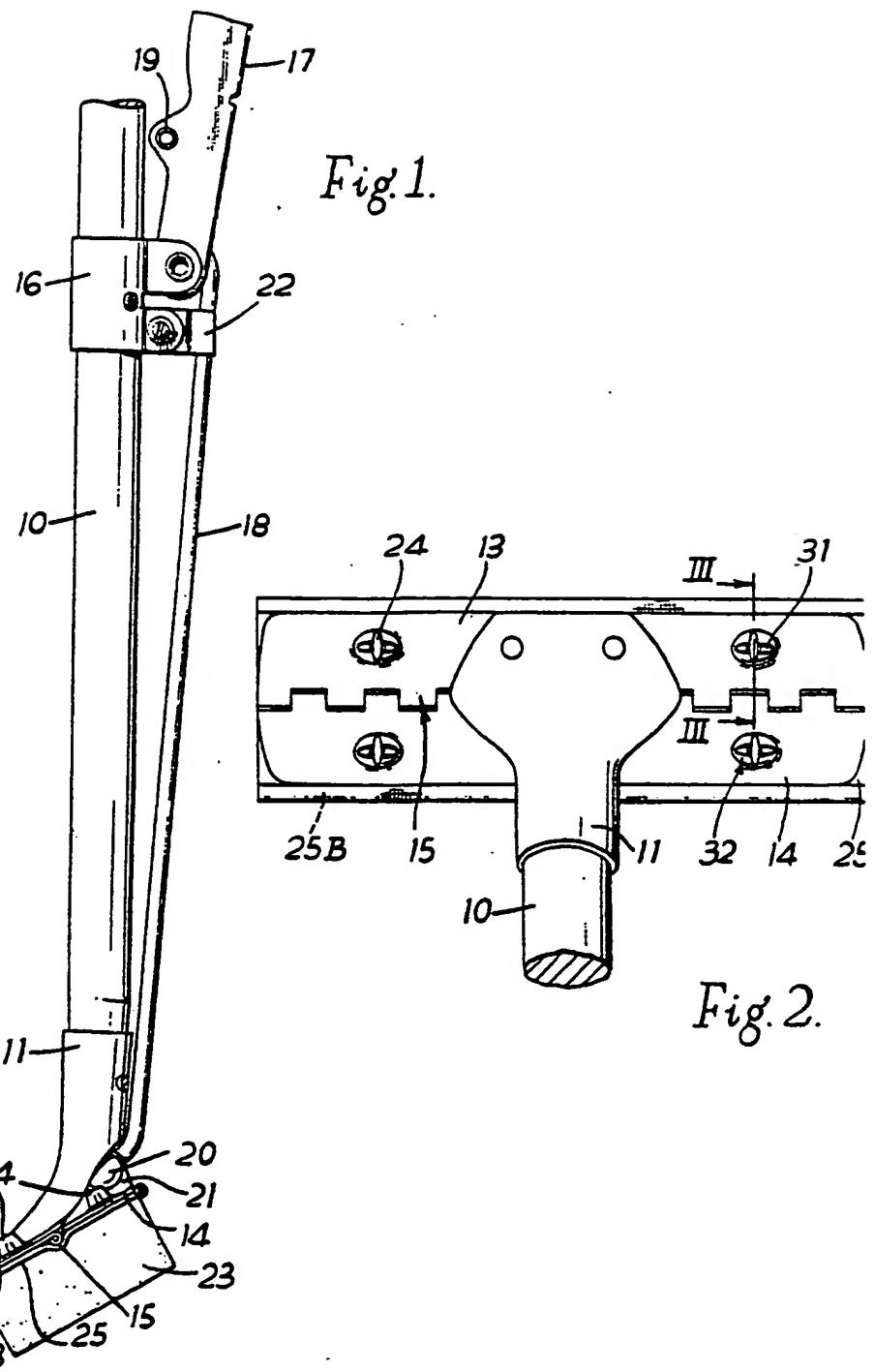
5. A self-wringing mop comprising an elongated carrier plate arranged to be secured to a handle and formed between its longer edges with a hinge, a mop head as claimed in any preceding claim, turn-button devices which extend through slots in the backing member which is hinged through slots in the carrier plate to attach the mop head to the carrier plate, and means for folding the hinged carrier plate to effect squeezing of the sponge or like slab of the mop head.

6. A mop according to Claim 5, in which the carrier plate is formed with raised portions around the slots therein.

7. A mop head as hereinbefore described with reference to the accompanying drawings.

8. A self-wringing mop constructed, arranged and adapted to operate substantially as hereinbefore described with reference to the accompanying drawings.

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932579 COMPLETE SPECIFICATION
2 SHEETS This drawing is a reproduction of
the Original on a reduced scale.
SHEETS 1 & 2

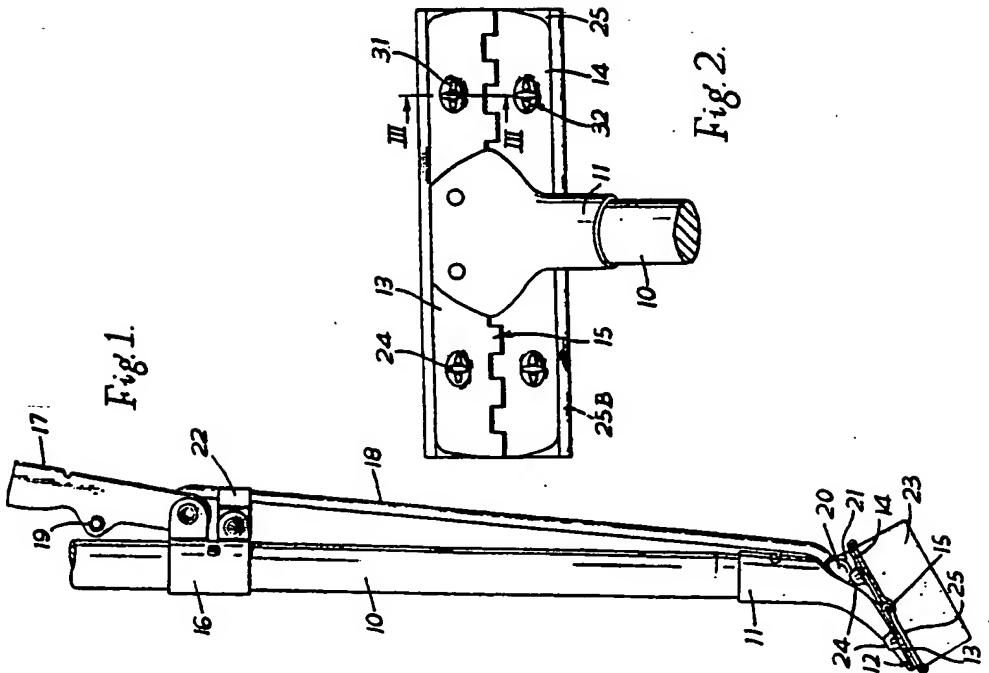


Fig. 1.

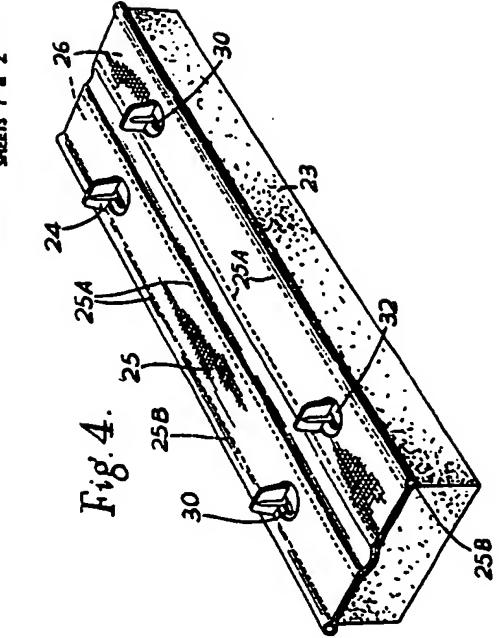


Fig. 4.

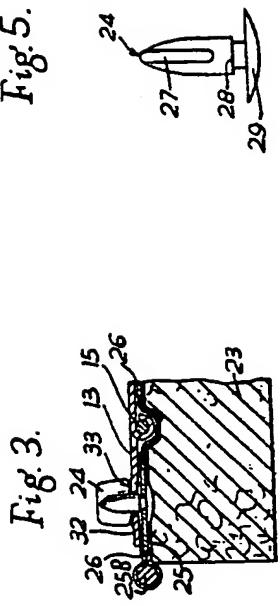


Fig. 3.

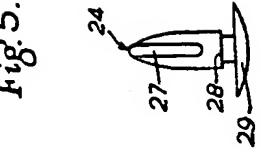


Fig. 5.